

Additional Sediment Sampling Location Recommendations
Lower Passaic River Study Area

Existing Sample Reference Location	River Mile	Additional Sample Recommendations (all at/near specified shore)	Rationale/Details	CPG Response	# proposed	Proposed by	
						EPA	CPG
None	2.3	2 additional samples on north shore, near Point-No-Point Bridge	There are no samples here, and there is potential access to shore	Utilities in this area (RM 2-2.5) make sampling prohibitive. Area believed to be fenced. 1 grab sample placed here.	1	X	
12A-0413	2.53	3 additional samples <input type="checkbox"/> 1 east and 1 west of this one <input type="checkbox"/> 1 west of location 08A-0024	North shore; contamination remains elevated at depth;	Utilities prohibit placement of sample to the east. No need to characterize between 12A-0413 and 08A-0024 (500 ft apart). 1 sample placed here.	1	X	X
08A-024	2.64	1 sample (grab) to the south of 08A-024	Lateral variation in concentration.	CPG proposed	1		X
08A-022	2.64	1 additional sample to the west, to bound elevated concentrations	South shore; generally bound to the east by SSP location 412	This sample is in a berth area. Maintenance dredging could occur here. 1 sample placed here.	1	X	
12A-0427	3.63	1 sample (grab) collocated with 12A0427	Characterize post-Irene conditions, support model ICs/surface mapping	CPG proposed	1		X
	3.9	1 sample (grab) in the channel	Support surface mapping/Model ICs	CPG proposed	1		X

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	4.0	1 sample (grab) in the channel	Support surface mapping/Model ICs	CPG proposed	1		X
08A-115	4.21/4.23	3 to 4 additional samples adjacent to south shore in this area	Near south shore; south shore is accessible, with the presence of a homeless camp	Shoreline under construction, Homeless receptor to be handled qualitatively in HHRA. No samples.	0	X	
12A-0440	4.54	3 additional samples <input type="checkbox"/> 1 between locations 40 and 44 <input type="checkbox"/> 1 east of location 40 <input type="checkbox"/> 1 west of location 44	South shore; not accessible, but contamination remains elevated at depth	2 only – to the east and west, not in-between.	2	X	X
12A-0444	4.64						
12A-0439	4.54	2 samples (grabs) near previous SSP locations (lateral, towards channel)	Characterize post-Irene conditions, support model ICs/surface mapping	CPG proposed	2		X
12A-0443	4.64						
12A-0445	4.96	<input type="checkbox"/> 1 sample south of this one <input type="checkbox"/> 1 north of location LPR-TO6B	West shore; Accessible; Homeless camp	1 sample to the south to bound 12A-0445. Field recon performed on 12/19/12 indicated that the camp is very sparse to the north and no accessible sediments mapped in this area.	1	X	X

Existing Sample Reference Location	River Mile	Additional Sample Recommendations (all at/near specified shore)	Rationale/Details	CPG Response	# proposed	Proposed by	
12A-0448	5.90	1 sample north of this location and 1 south of it, to bound at depth	East shore; Concentrations significantly elevated below surface	2 samples placed here. Low energy area, buried sediments not expected to be exposed.	2	X	
12A-0449	6.33	5 to 7 additional samples	Near west shore; potentially accessible; silt area; mixed results in nearby locations, additional samples may help determine if there is a pattern here	6 samples placed here – 2 to the south, 4 to the north.	6	X	X
08A-0040	6.49	<input type="checkbox"/> 2 or 3 to the south <input type="checkbox"/> 3 or 4 to the north					
LPRC07B	6.88	between this and location LPRC07B					
08A-0043	7.00	1 additional sample between this and LPRT07E	West Shore	1 sample placed here.	1	X	X
08A-0045	7.00	1 additional sample between this and 12A-0458	East shore	Redo pattern to look at lateral gradient.	0	X	
12A-0458	7.10	2 additional samples between this and location 12A-0459	East shore	Redo pattern to look at lateral gradient.	0	X	
12A-0459	7.21	1 additional sample between this and	East shore	Near-shore, longitudinal extent generally well	1	X	

Existing Sample Reference Location	River Mile	Additional Sample Recommendations (all at/near specified shore)	Rationale/Details	CPG Response	# proposed	Proposed by	
		location 12A-0460		characterized for RI.			
12A-0459	7.2	Two additional samples forming a transect into the channel	Lateral trends in surficial concentration	CPG proposed	2		X
12A-0461	7.23	3 additional samples <input type="checkbox"/> 1 to the south of this location <input type="checkbox"/> 2 to the north, between this and location 08A-046	West shore	3 samples placed here – 1 to the south, 2 to the north.	3	X	X
12A-0460	7.32	2 additional samples between this and location LPRT08C	East shore	Redo pattern to look at lateral gradient.	0	X	
12A-0460	7.3	Two additional samples forming a transect into the channel	Lateral trends in surficial concentration	CPG proposed	2		X
LPRT08C	7.43	2 additional samples between this and location 12A-0464	East shore	Redo pattern to look at lateral gradient.	0	X	
12A-0464	7.6	One additional sample between this and 12A-0463 forming a transect	Lateral trends in surficial concentration	CPG proposed	1		X

Existing Sample Reference Location	River Mile	Additional Sample Recommendations (all at/near specified shore)	Rationale/Details	CPG Response	# proposed	Proposed by	
		into the channel					
12A-0464	7.62	2 additional samples between this and location 12A-0465	East shore	1 sample to bound northern extent.	1	X	X
12A-0462	7.62	3 additional samples <input type="checkbox"/> 1 to the south of this location <input type="checkbox"/> 2 to the north, between this and location 08A-050	West shore	3 samples placed here – 1 to the south, 1 to the north and one into the channel.	3	X	X
12A-0468	8.42	2 to 4 more on either side, between LPRT09B and 12A-0470	West shore	3 samples placed here – 1 to the south, 1 to the north and one into the channel. Locations limited by utilities.	3	X	X
LPRT09F	8.81	3 additional samples <input type="checkbox"/> 1 more to the south, between this and 12A-0470 <input type="checkbox"/> 2 more to the north, between this and 08A-056	West shore	3 samples placed here – 1 to the south, 2 to the north.	3	X	X
12A-0475	8.90	1 more to the north and 1 more to the	West shore	1 placed to the south, 3 EMBM samples to the	1	X	X

Existing Sample Reference Location	River Mile	Additional Sample Recommendations (all at/near specified shore)	Rationale/Details	CPG Response	# proposed	Proposed by	
		south, to bound		north, no additional samples.			
12A-0476	9.60	3 to 4 additional samples at and near mouth of Unnamed Creek	East shore; surface concentrations of 2,3,7,8-TCDD still elevated further into the creek	Mudflat bounded by other samples. No additional samples needed for RI.	0	X	
12A-0480	10.31	1 more to the north	West shore, already bound to south	1 sample placed here. Potential utility conflict.	1	X	X
3 rd River	~11.2	Approximately 5 additional samples, from 0 to 6" and 6 to 18" only, at and near mouth of river	West shore	4 samples place here to characterize mouth of 3 rd River laterally and longitudinally. Side scan indicates bedrock.	4	X	
12A-0481	11.24	5 more to north, between this and 08A-070	East shore; this location will be removed as part of RM10.9 RA, which extends from RM 10.77 to RM 11.24	4 samples to the north, 2 transects to characterize lateral and longitudinal extent. No samples between Rt. 3 and RR bridge due to Rt. 3 bridge construction.	4	X	X
08A-0069	11.51	1 more to north and 1 more to south	West shore	No samples between Rt. 3 and RR bridge due to Rt. 3 bridge construction.	0	X	
LPRT12E	11.75	1 more to south and approximately 5 more	East shore; adjacent to residential	6 samples (grabs) placed here – 1 to the south, 5 to	6	X	

Existing Sample Reference Location	River Mile	Additional Sample Recommendations (all at/near specified shore)	Rationale/Details	CPG Response	# proposed	Proposed by	
		to north	properties	the north. Course sediments.			
08A-073	12.30	1 more to north and 1 more to south, to bound, on west shore	Center/west shore	EMBM sample to north shows lower concentrations at depth. Surface well characterized for RI. Bathymetry (2011 and 2012) indicates depositional area. 1 sample placed here.	1	X	
08A-077	12.80	1 more to north and 1 more to south, to bound	East shore	2 samples placed here. Co-located benthic grab collected after LRC indicates lower concentrations.	2	X	

Summary

- ☐ 59 locations
- ☐ Collected and analyzed following SSP QAPP
- ☐ Cores will be 2.5 feet, with the following exceptions:
 - Four cores at Third River will be 1.5 feet (per EPA request)
 - Thirteen locations will be grabs, based on DQO (model ICs, HH exposure characterization)

- ☐ High-resolution cores for Pb-210 will not be collected

DRAFT - For Discussion Purposes Only

Proposed SSP2 Locations

★ Core

★ Grab

Utility Crossings Preliminary 2012-02-08

— Crossing Estimated

— Crossing Known

— Buffers Estimated

— Buffers Known

⊠ Accessible Sediments

Surficial Grain Size

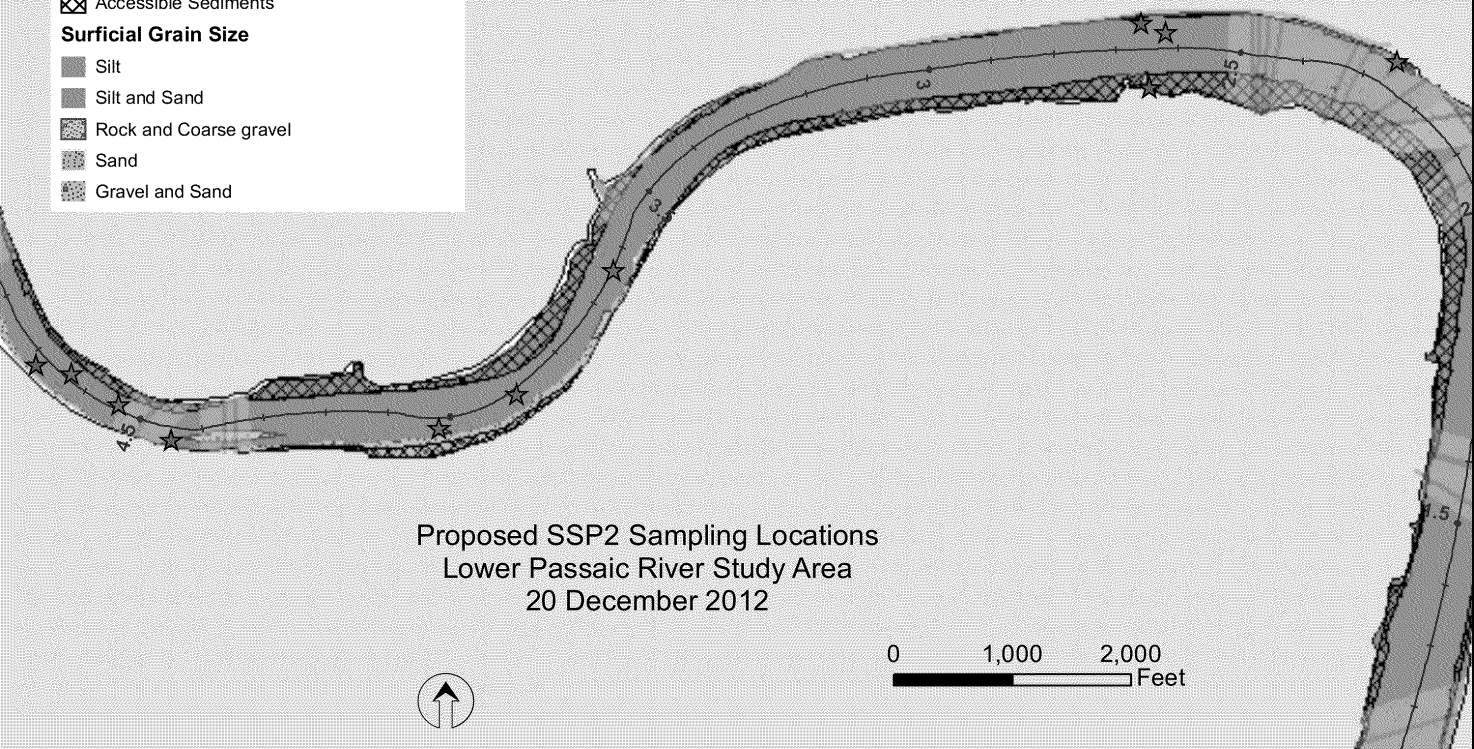
■ Silt

■ Silt and Sand

■ Rock and Coarse gravel

■ Sand

■ Gravel and Sand



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Proposed SSP2 Locations

★ Core

★ Grab

Utility Crossings Preliminary 2012-02-08

— Crossing Estimated

— Crossing Known

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⊠ Accessible Sediments

Surficial Grain Size

■ Silt

■ Silt and Sand

■ Rock and Coarse gravel

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Proposed SSP2 Sampling Locations
Lower Passaic River Study Area
20 December 2012



0 1,000 2,000
Feet

FOIA_07123_0006372_0010

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Proposed SSP2 Locations

★ Core

★ Grab

Utility Crossings Preliminary 2012-02-08

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— Crossing Known

— Buffers Estimated

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⊠ Accessible Sediments

Surficial Grain Size

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■ Silt and Sand

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Proposed SSP2 Sampling Locations
Lower Passaic River Study Area
20 December 2012



0 1,000 2,000 Feet

FOIA_07123_0006372_0011

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Proposed SSP2 Locations

★ Core

★ Grab

Utility Crossings Preliminary 2012-02-08

— Crossing Estimated

— Crossing Known

— Buffers Estimated

— Buffers Known

⊠ Accessible Sediments

Surficial Grain Size

■ Silt

■ Silt and Sand

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Proposed SSP2 Sampling Locations
Lower Passaic River Study Area
20 December 2012

0 500 1,000
Feet

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Proposed SSP2 Locations

★ Core

★ Grab

Utility Crossings Preliminary 2012-02-08

— Crossing Estimated

— Crossing Known

— Buffers Estimated

— Buffers Known

⊠ Accessible Sediments

Surficial Grain Size

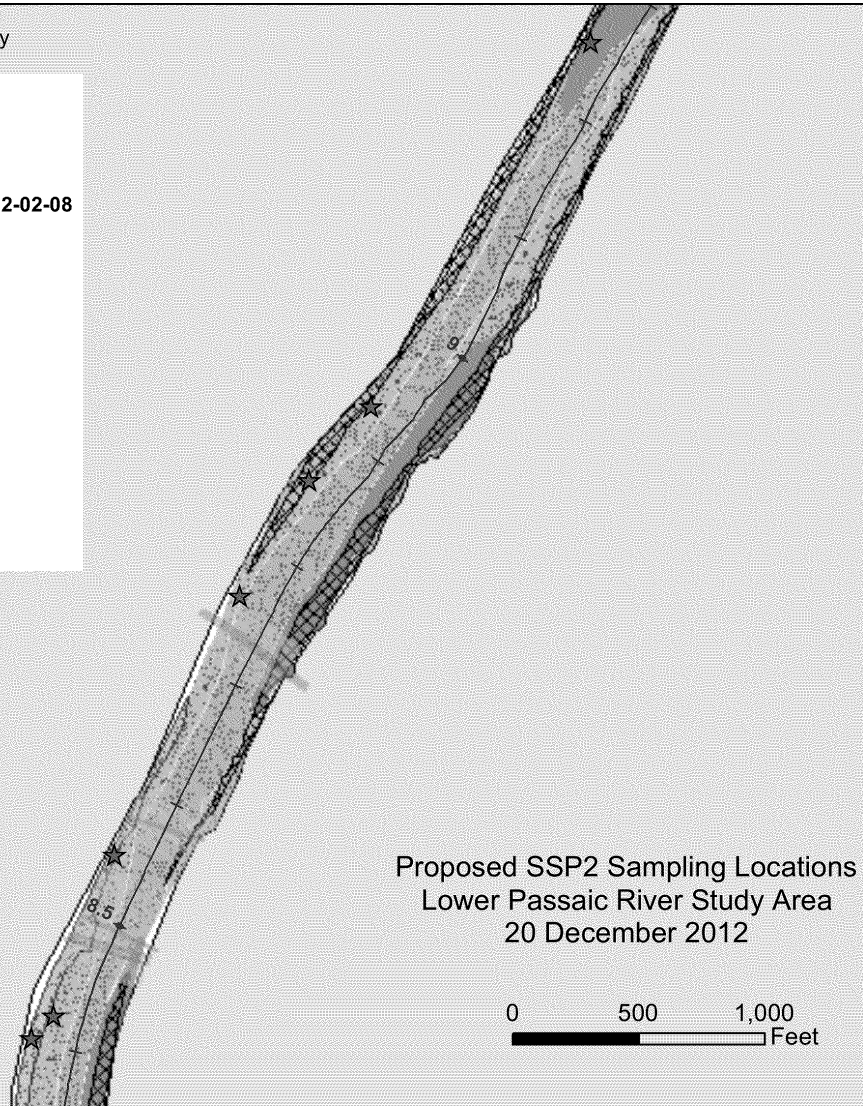
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■ Silt and Sand

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■ Sand

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Proposed SSP2 Locations

△ Core

△ Grab

Utility Crossings Preliminary 2012-02-08

--- Crossing Estimated

— Crossing Known

--- Buffers Estimated

— Buffers Known

⊠ Accessible Sediments

Surficial Grain Size

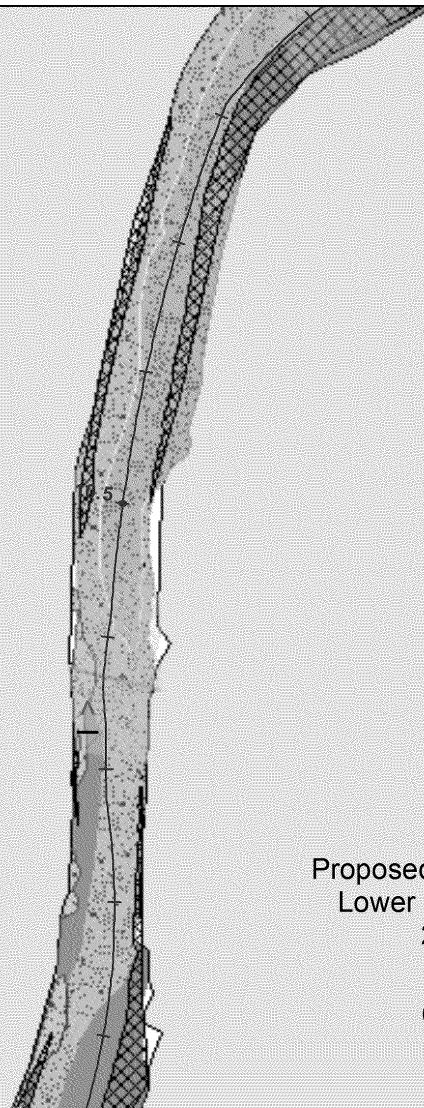
■ Silt

■ Silt and Sand

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■ Gravel and Sand



Proposed SSP2 Sampling Locations
Lower Passaic River Study Area
20 December 2012

0 500 1,000
Feet

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Proposed SSP2 Locations

- △ Core
- △ Grab

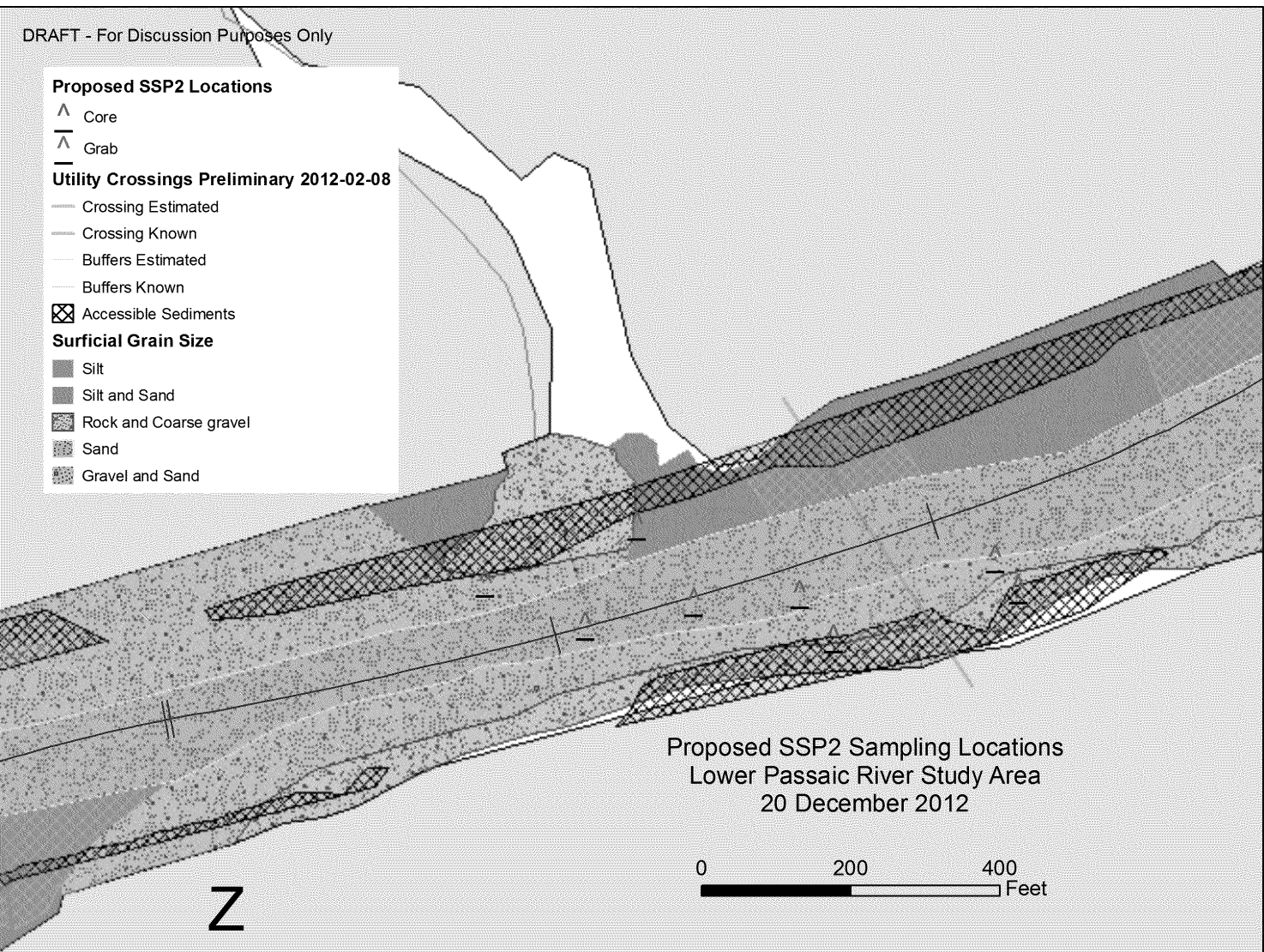
Utility Crossings Preliminary 2012-02-08

- Crossing Estimated
- Crossing Known
- Buffers Estimated
- Buffers Known

- ⊠ Accessible Sediments

Surficial Grain Size

- Silt
- Silt and Sand
- Rock and Coarse gravel
- Sand
- Gravel and Sand



Proposed SSP2 Sampling Locations
Lower Passaic River Study Area
20 December 2012

0 200 400
Feet

DRAFT - For Discussion Purposes Only

Proposed SSP2 Locations

- △ Core
- △ Grab

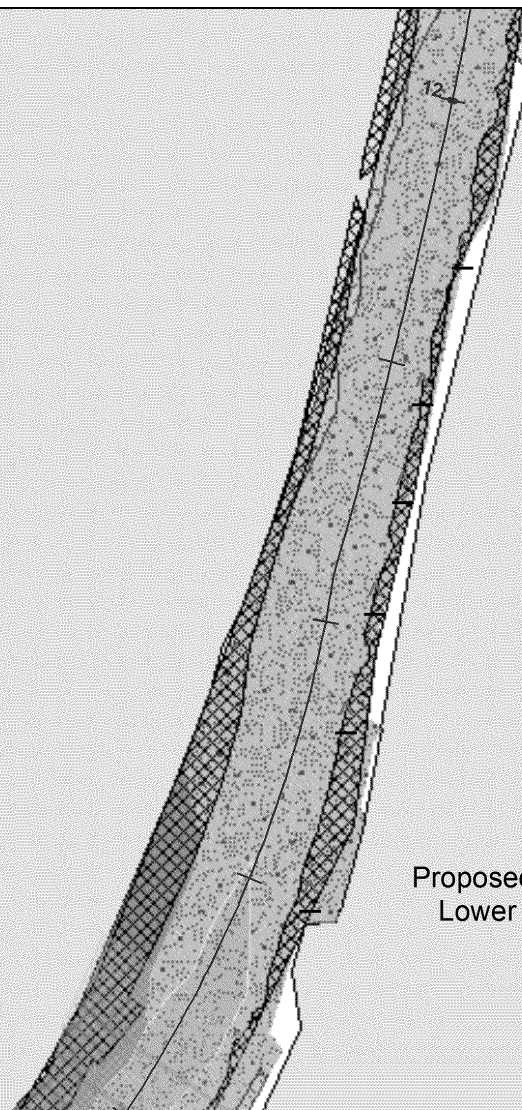
Utility Crossings Preliminary 2012-02-08

- Crossing Estimated
- Crossing Known
- Buffers Estimated
- Buffers Known

- ⊠ Accessible Sediments

Surficial Grain Size

- Silt
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Proposed SSP2 Sampling Locations
Lower Passaic River Study Area
20 December 2012

0 200 400
Feet

N

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Proposed SSP2 Locations

- △ Core
- △ Grab

Utility Crossings Preliminary 2012-02-08

- Crossing Estimated
- Crossing Known
- Buffers Estimated
- Buffers Known

- ⊠ Accessible Sediments

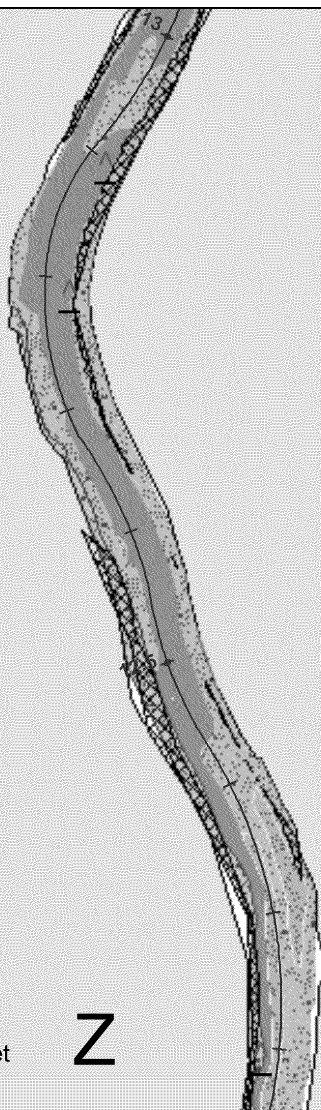
Surficial Grain Size

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Proposed SSP2 Sampling Locations
Lower Passaic River Study Area
20 December 2012

0 1,000 2,000 Feet

N



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